

# PD130 SINGLE CHANNEL VEHICLE DETECTOR

## DATA SHEET

The PD130 is a single channel microprocessor based detector designed specifically for parking and vehicle access control application. The PD130 has been designed using the most up-to-date technology in order to meet the requirements of a vast number of parking applications in terms of operating conditions and options available to the user. The primary function of the detector is to detect vehicle presence by means of an inductance change caused by the vehicle passing over a wire loop buried under the road surface.



### Compact Size:

The compact aesthetically pleasing housing combined with all the industry requirements regarding features and functionality allows this detector to be incorporated into any new or existing vehicle detection system.

### Diagnostic Capabilities:

The software of this unit allows comprehensive diagnostics capabilities in conjunction with separate DU100 hand-held diagnostics readout. Advanced diagnostics features are covered by International patents.

### Selectable Permanent Presence:

Using this feature, the output of the presence relay will be maintained for an indefinite period, thereby eliminating premature barrier/gate/door closure and possible vehicle damage.

### Loop Isolation Protection:

The loop isolation transformer provides protection against lightning and transient damage and allows for operation with single point to ground sensor loops.

### Loop Frequency Indication:

The possibility of crosstalk (interference) between adjacent loops/detectors can be determined by an integral indication, and eliminated by changing the frequency settings.

### **Automatic Sensitivity Boost (ASB):**

This feature facilitates the reliable detection of large truck trailer combinations and high-bed vehicles by automatically boosting the sensitivity to maximum on detection of a vehicle.

### **Detect Filter:**

Selection of the filter option will provide a finite turn-on delay, thus allowing small or fast-moving objects to pass over the loop undetected.

### **APPLICATIONS**

- Parking barrier control
- Vehicle access control
- Motorised gates and doors
- Industrial control systems

### **Technical Data**

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Sensitivity: Four step adjustable on face-plate:, High: 0.02%  $\Delta L/L$ , Medium High: 0.05%  $\Delta L/L$   
Medium Low: 0.1%  $\Delta L/L$ , Low: 0.5%  $\Delta L/L$

Frequency: Four step adjustable on face plate, 12- 80kHz , Output 2 output relays:

Configuration Relay 1 = Presence output, Relay 2 = Pulse output

Pulse output Approx. 150ms, duration: Factory option 250ms, Presence time: 1 hour for 3%  $\Delta L/L$   
and permanent presence option

Operating Four way Mode selector on face plate.

Modes:

1. Limited presence/ permanent, presence, 2. Pulse on detect/Pulse on undetect, 3. Automatic  
Sensitivity Boost off/on, 4. Filter off/on (2 second delay)

Indications:

Power requirements: 240V AC  $\pm$  15% 48-60Hz (PD132), 12-24V AC/DC  $\pm$  15% (PD134)

1.5VA max@230V, Presence 5A@230V AC, Output Relay: Change-over contacts (fail-safe)

Pulse relay: 5A@230V AC, Change-over contacts (non-fail-safe)

Operating temperature range: -40°C to +80°C

### **Mechanical detail:**

Material: High heat ABS blend, Dimensions: 76 x 40 x 78mm, Mounting: Shelf or DIN-rail socket

Connector: Single rear mount 11-pin submagnal